

SOV/79-29-8-69/81

5(3)
AUTHORS: Pyrkov, L. M., Bresler, S. Ye., Frenkel', S. Ya.

TITLE: Investigation of Secondary Reactions in Processes of Radical Polymerization According to the Formation of "Hybrid Polymers"

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2750-2760 (USSR)

ABSTRACT: The authors continued their previous investigation of hybrid polymers (Ref 1) and in the present paper established directly the existence of secondary reactions of different types which include the interaction of macroradicals among one another as well as the interaction of radicals with the polymer chains. The evaluation of the hybrid polymer yield leads to the conclusion that the reaction, which the authors denote as an inter-chain exchange or macromolecular recombination, is less probable than an increase in the branches of the diene chains instead of an interaction of the free radicals with double bonds. The behavior of the newly formed radical after destruction - apart from reaction conditions - is determined by the tendency characteristic of the given radical to stabilize due to recombination or by other means. The more probable, e.g., the recombination typical of polystyrene, the greater is the probability of an exchange

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Investigation of Secondary Reactions in Processes of Radical Polymerization According to the Formation of "Hybrid Polymers" SOV/79-29-8-69/81

between the chains. Hybrid polymers forming in model systems are subject to polydispersion to the highest degree with regard to their amount and composition, so that it is impossible to determine exactly the rate constants of the corresponding secondary reactions. The data of systems in which the polymerization of the vinyl compound (styrene) took place in the presence of the diene polymer (divinyl caoutchouc) confirmed the data of several authors on the basic possibility to produce industrial grafted polymers with a "diene backbone" and vinyl side chains by this simple process (Ref 16). The diagrams given in the experimental part illustrate the results obtained. There are 11 figures and 16 references, 6 of which are Soviet.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR
(Institute of High Polymer Compounds of the Academy of Sciences, USSR)

SUBMITTED: July 14, 1958

Card 2/2

L 37203-66 EWT(m)/EWP(j)/T IJP(c) WW/RM/JWD
ACC NR: AP6012416 (A) SOURCE CODE: UR/0183/65/000/006/0017/0019

AUTHOR: Batrakova, T. V.; Sheremet'yeva, T. V.; Kamalov, S. K.;
Pyrkov, L. M.

ORG: IVS AN SSSR

TITLE: Preparation of fiber-forming materials based on acrylonitrile
copolymers with N-alkyl amides of citraconic and maleic acids

SOURCE: Khimicheskiye volokna, no. 6, 1965, 17-19

TOPIC TAGS: synthetic fiber, acrylonitrile, copolymerization, chemical
reaction, tensile strength

ABSTRACT: New copolymers of acrylonitrile with unsubstituted and with
N-substituted monoamides of citraconic and maleic acids were synthesized
and characterized. Copolymerizations were in aqueous media using
oxidation-reduction initiators. The monoamides copolymerize with
acrylonitrile in different molar ratios; their activity is greater than
the activity of pure acrylonitrile since resultant copolymers were
richer in monoamide than the composition of the initial mixture. Fibers
formed from the copolymers were stronger than polyacrylonitrile fibers.

UDC: 677.494.745.32

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L 37203-66

ACC NR: AP6012416

Fibers formed when castor oil was used in the hardening bath had higher strength indices than fibers formed in a 40% aqueous dimethylformamide solution. Greatest strength was obtained in compositions containing 4-5 mol% of the second component, regardless of the substituent at the amide nitrogen. Orig. art. has: 3 tables and 1 figure.

SUB CODE: 07 h1/ SUBM DATE: 100ct64/ ORIG REF: 003/ OTH REF: 001

Card 2/2/HCP

TUMANOV, S.G., doktor tehnicheskikh nauch, PYBKOV, V.P.

Obtaining new chrome pigments of the spinel type. Stek. i ker. 22
no.6:2-5 Ja '65. (MIRA 18:6)

i. Dulevskiy krasochnyy zavod.

L 4899-66

ACC NR: AP5026307

UR/0144/65/000/008/0923/0930
621.3.072.2 + 621.314.6

AUTHOR: Pyrkov, V. V.; (Senior lecturer); Skorovarov, V. Ye. (Head of electronics dept)

33

32

03

TITLE: Stabilized rectifier controlled by a saturation choke

SOURCE: IVUZ. Elektromekhanika, no. 8, 1965, 923-930

TOPIC TAGS: electronic rectifier, stabilizer, semiconductor device, control circuit, voltage stabilizer

ABSTRACT: Power rectifiers may be controlled either by circuits containing control valves or by incorporating saturation chokes into the control circuits. A comprehensive theoretical discussion of the problem with particular emphasis on the saturation choke approach shows that by using chokes as integrating components reacting to the variations in the mean value of the power supplying voltage, it is possible, in principle to construct a regulator of the rectifier voltage sensitive to the deviation of the input quantity. This possibility was tested on a device which uses semiconductor circuitry shaping across the choke voltages of the required form and supplies at the instant of saturation a control pulse feed to the auxiliary rectifier valve. The circuit is shown in Fig. 1 of the Enclosure. Tests show that such a device can be used in conjunction with rectifiers handling power from a few tens to several thousands of kilowatts. The experimental unit representing the simplest possible version of the device was capable of stabilizing the output voltage within $\sim 1.3\%$ for input voltage

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L 4899-66

ACC NR: AP5026307

changes of 10%. The response of such a rectifier during changes in load or in the input voltage is faster than 1.5 periods in the case of simple phase power supplies and faster than a whole period in the case of 3-phase systems. Orig. art. has: 10 formulas and 4 figures.

ASSOCIATION: Kafedra Elektroniki Moskovskogo Fiziko-tehnicheskogo instituta
(Department of Electronics, Moscow Institute of Physics and Technology)

SUBMITTED: 25Jul64

ENCL: 01

SUB CODE: EC

NO REF SOV: 004

OTHER: 000

Card 2/3

L 4899-66

ACC NR: AP5026307

ENCLOSURE: 01

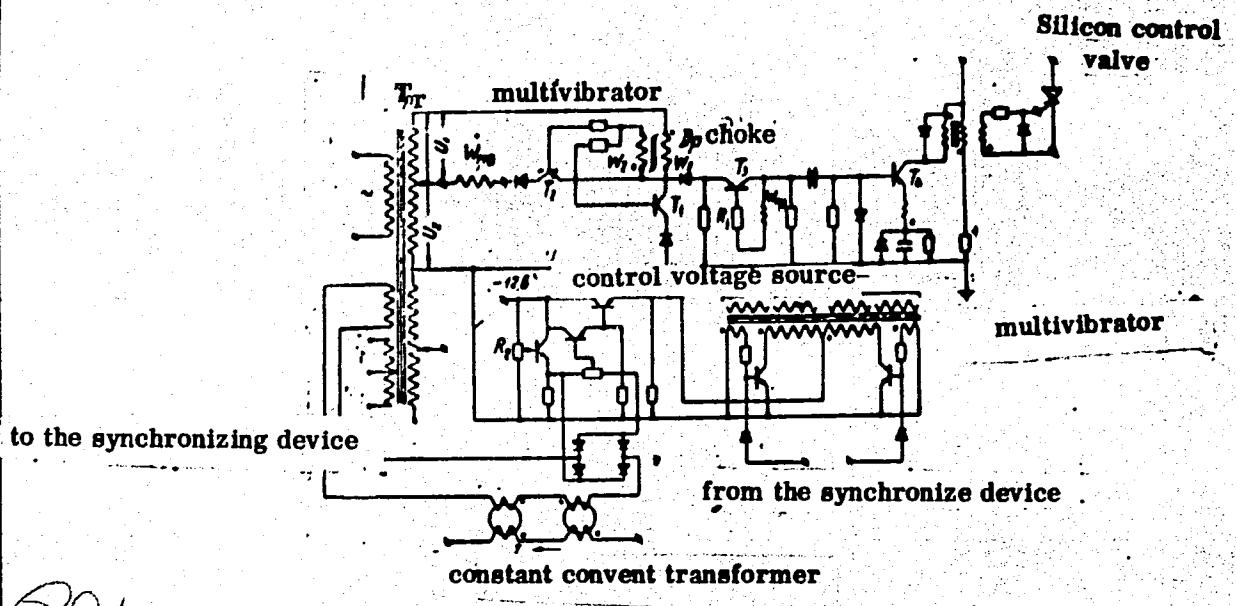


Figure 1. Principles of the rectifier control circuit.

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NAME IN BOOK INFORMATION

REV/3/87

PyRKOV, V.V.

Name: Pribor-tekhnichesky institut
Address: Prof. Filiba 1, radiotekhnika [Research in Radiotronics and Radio Engineering]
 Moscow, U.S.S.R., 105910 (Series: Ista' Trudy,
 77, 1) Bratsk oil refinery, 2150 copies printed.

Publishing Agency: Nauka, Ministerstvo znanii i sredstva spetsial'nogo obrazovaniya.

Editor: M.I. Kita, Engraver; Ed. of Publishing House: S.D. Antonova;
 Tech. Ed.: L.A. Garmushina; Managing Ed.: A.B. Tsvetkov, Engineer.
PURPOSE: This book is intended for scientific workers, students in advanced courses and engineers.

CONTENTS: This is a collection of 15 studies dealing with problems of radio physics, electronics, quantum physics, and aerodynamics. The studies examine the method of laser acoustics as applied to the propagation of radio waves in the presence of a plane function, the general conditions of stability of a random process at the output of a linear filter while a periodic unstable random process is supplied at the input of the filter, the results of experiments with a ferromagnetic specimen with large hysteresis loops as an explanation of the noise mechanism in ferrromagnets at cyclic magnetization, preliminary experiments for the determination of thermal characteristics and the results of an experimental study of a turbulent boundary layer in a supersonic flow. No precedencies are mentioned. References accompany most articles.

TABLE OF CONTENTS

Spiridonov, Yu.P. and V.P. Tolmachev. Similarity Between an Object and Its Optical Image 10
 Conditions at which the image of an object produced by an optic system will resemble the structure of the object are determined. It is shown that for objects of finite range a similar image is impossible. The results obtained in this study define more accurately the conditions of image formation.

Tolmachev, Yu.G. [Doctor of Technical Sciences, Professor]. Generation 29
 Power Radiotransformers and Application of Formation Power Rectifiers
 Problems of manufacture and application of operational parameters of germanium power rectifiers as well as control methods using silicon diodes for these rectifiers are studied.

Tolmachev, Yu.G. [Doctor of Technical Sciences], G.N. Kharlamov, [Candidate of Technical Sciences], and V.V. Fomichev [Candidate of Technical Sciences]. 49
 Model of Electromechanical Direct Current
 This model was developed at the Moscow Institute of Physics and Technology. The power and control systems of the model are briefly described.

Bogolyubov, N.N. Temperature Dependence of the Work Function of Thermionic Cathodes 62
 Reasons for the temperature dependence of the work function of various thermionic cathodes are investigated. The spot effect of the emitting surfaces of cathodes on the temperature coefficient of the work function is shown. In the case of semiconductor cathodes the experimentally obtained values of temperature dependence $\Delta\phi/\Delta T$ are explained by the temperature variation of the electronic potential.

Bogolyubov, N.N. Method of Determining Thermionic Emission 72
 Constants of Semiconductor Cathodes
 A combined method of measuring the thermionic emission constants of a metal and a semiconductor cathode is described. This method permits measurement of the work function (average for the film and for the same cathode specimen) as well as determination of the temperature coefficients of the work function for the same cathode specimen. The method is used to verify the validity of the temperature interpretation of experimental results, which facilitates interpretation of experimental results. Preliminary data on the energy levels of semiconductor cathodes can be obtained by taking measurements over a wide temperature range.

Bogolyubov, N.N. Problem of Radiation Damage (radiom.) in an Oxide-Coated Cathode 85
 Experimental results showing an increase in the work function and in the constant A of the oxide-coated cathode during a pulse are presented. The observed change in the work function is considered a verification of the mobile-ion hypothesis. The author thanks Zavaryev.

Py R K o-V, V. V.

14(6), 8(0) PHASE I BOOK EXPLOITATION SOV/3071
 Akademiya Nauk SSSR. Energeticheskii Institut
 Elektroenergetika, vyp. 1 (Electric Power Engineering, № 1) Moscow,
 Izd-vo AN SSSR, 1959. 159 p. Errata slip inserted. 2,600 copies
 printed.

Ed. of Publishing House: P. P. Gorikov and Ye. M. Grigorenko; Tech.
 Ed.: Ye. V. Zelenkova; Editorial Board: Yu. G. Tolstov [Doctor
 of Technical Sciences (Begov, Bo.)], I. M. Markovich [Doctor of
 Technical Sciences, I. S. Stakhanovskii [Doctor of Technical Sci-
 ences], P. I. Zubov [Candidate of Technical Sciences, V. I. Lebedev,
 Candidate of Technical Sciences, V. V. Mikhnevich, Candidate of Technical Sciences, V. I. Lebedev,
 Candidate of Technical Sciences, and M. D. Bol'shov (Secretary)]

PURPOSE: This collection of articles is intended for specialists
 in the various fields of electric power engineering treated in it.

CONTENTS: The first issue of the collection of articles
 "Elektroenergetika" appeared in April 1959. It is published by
 Nauk. Izdatelstvo Akademii Nauk SSSR. Krzhizhanovskiy of the Academy of Sciences, USSR.
 The articles in this issue are based on research and work by the
 authors under the auspices of ENIN. The articles are on high
 theoretical and technical level and represent original contribu-
 tions to various present-day problems in electrical engineering.
 References are given after most of the articles.

Borikin, V. P. Problems of Designing Saturable Reactors for Low-
 Voltage Contact Rectifiers 31

The author considers the problem of designing saturable re-
 actors for dc low-voltage supply for electrochemical and
 electrosmelting industries, which has not been adequately
 treated in the current literature. He aims at presenting a
 systematic survey of existing methods and suggests certain
 concrete recommendations on methods of calculating saturable
 reactors. There are 10 references. 2 Soviet, 6 German and
 2 English.

Uteckir, A. N. Theory and Method of Designing Voltage-Doubling 44
 Rectifiers with a Capacitive Filter

The method suggested by the author was tested experimentally
 and found to satisfy engineering requirements. There are
 11 references. 7 Soviet, 2 German and 2 English.

Gorelikin, M. V., Sh. I. Lutidze and P. M. Shpalazra. Electronic
 Synchronization of Synchronous Generators Using a Six-phase Circuit
 With a Buffer Rectifier 59

The authors credit Academician K. I. Shender with the first
 studies in 1933 on the problems of electronic excitation.
 Recent theoretical investigations on this subject were con-
 ducted in the USSR by D. A. Karabikhin, I. A. Glebov,
 Ye. L. Ettinger and by the Electromechanics Laboratory of
 ENIN. The authors made a number of investigations of elec-
 tronic excitation on laboratory models using different cir-
 cuit combinations. All of the methods using buffer rectifiers
 were introduced by the laboratory. The methods and results of
 investigations are presented. There are 3 references, all
 Soviet.

Sh. I. Lutidze. Analysis of an Electronic Exciter Connected
 Through a Three-phase Circuit With a Buffer Rectifier. 67

The author investigates simple and reliable three-phase
 electronic exciter systems with buffer rectifiers and
 applies the method of symmetrical components to obtain
 expressions for currents and voltages. This article is a
 continuation of the previous one. There are 3 references,
 all Soviet.

P. Gorikin, M. V. and P. M. Shpalazra. Application of Germanium
 Rectifiers in Excitation Circuits of Synchronous Generators 93

The Electromechanics Laboratory of ENIN developed, in 1956,
 an experimental installation of a synchronous generator
 equipped with a rotating germanium rectifier in a bridge
 circuit with germanium diodes of the $p-n-p$ -type. Results
 of experiments are presented. There are 5 references. 4
 Soviet and 1 English.

PYRKOV, Valentin Valentinovich, starshiy prepodavatel'; SKOROVAROV, Vladimir Yefimovich

Stabilized rectifier controlled by saturable reactors. Izv.vys,ucheb, zav.; elektromekh. 8 no.8:923-930 '65.

(MIRA 18:10)

1. Kafedra elektrotehniki Moskovskogo fiziko-tehnicheskogo instituta (for Pyrkov). 2. Zaveduyushchiy kafedroy elektrotehniki Moskovskogo fizikotekhnicheskogo instituta (for Skorovarov).

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343730007-3

PYRLIN, N.P.

[Legal aspects of the medical examination of corpses] Sudebno-meditsinskoe issledovanie trupa. Moskva, 1958. 43 p. (MIRA 11:9)
(MEDICAL JURISPRUDENCE)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343730007-3"

PYRLINA, N.P.

Role of chest injury in pulmonary tuberculosis. Sud.-med.ekspert.
2 no.3:3-8 Jl-S '59. (MIRA 13:4)

1. Kafedra sudebnoy meditsiny I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova (zav. - prof. V.P. Chervakov).
(TUBERCULOSIS) (CHEST--WOUNDS AND INJURIES)

PYRILINA, N.P. (Moskva)

Sympathicogonias in newborns [with summary in English]. Arkh.pat.
20 no.2:82-85 '58. (MIRA 11:4)

1. Iz kafedry sudobnoy meditsiny (zav. - prof.V.F.Chervakov)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.
Sechenova.

(NEUROBLASTOMA, in inf. & child.

sympathicogonias of thoracic portion of left sympath.
trunk in newborn (Rus))

(SYMPATHETIC NERVOUS SYSTEM, neopl.
same)

PYRLINA, Nina Petrovna, kand. med.nauk; SHCHUKIN, P.I., red.;
ZAGOREL'SKIY, Ya.I., tekhn. red.

[Medicolegal examination of material evidence; laboratory
manual for students] Sudebnomeditsinskoе issledovanie ve-
shchestvennykh dokazatel'stv; praktikum dlia studentov.
Moskva, 1-i Mosk. med. in-t im. I.M.Sechenova, 1964. 63 p.
(MIRA 17:3)

Pyrova-

Production of vitamin B₁₂ by actinomycetes. A. Šimek, MD
Turčinová, Brocová, and Pyrová (Pharm., Biochem. Research Inst., Prague). *Ceskoslov. hyg. epidemiol., mikrobiol., imunol.*, 4, 303-6 (1958).—Over 100 different cultures of actinomycetes were isolated from soil and cultivated in a medium conte: soya flour 1.5, cornsteep liquor 0.5 (per dry wt.), dry brewers' yeast 0.2, NH₄NO₃ 0.1, glucose 1.6, NaCl 0.3, glycerol 0.5, CaCO₃ 0.2, CoCl₂·6H₂O 0.00005%, and water, at 27.5°, pH 7.0 under continuous shaking (100 vibrations/min.). Of the cultures tested 38% produced less than 0.25, 39% 0.26-0.50, 15% 0.51-0.75, 5% 0.76-1.00, and 3% 1.01-1.06 γ vitamin B₁₂/ml. L. J. Urbánek (3)

PYRKOV, A. S.

"Soil-Subsoil Conditions in the Washing Out of Salted Land in
the Right-Bank Region of the Alazan River." Cand Agr Sci, Georgian
Sci-Res Inst of Hydraulic Engineering and Soil Improvement, 9 Dec 54.
(ZV, 30 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

SYDZOVSKY, Viktor; PYROVA, Olga

Antibacterial properties of various keto compounds. Cesk. epidem.
mikrob. imun 8 no.4:255-258 July 59

1. Vyzkumný ustav pro farmacii a biochemii v Praze.
(BACTERIA, pharmacol.)
(KETONES, pharmacol.)

PYRLINA, N. P.

"Legal-Medical Evaluation of Injuries of the Face." Sub 10 Sep 51, First
Moscow Order of Lenin Medical Inst.

Dissertations presented for science and engineering degrees in Moscow
during 1951.

SO: Sum. No. 480, 9 May 55.

PYRSIN, A.V.; LEVCHENKO, S.P. [deceased]

Possible errors in recording a ship's roll and pitch with a slit photorecorder of rolling. Okeanologiya 4 no.4:690-694 '64. (MIRA 17:10)

1. Morskoy gidrofizicheskly institut AN SSSR.

L 08103-67 EWT(m)/EWP(t)/ETI IJP(c) JD/WW/JG SOURCE CODE: UR/0363/66/002/004/1684/1685
 ACC NR: AP6030730 (A)

33.
B

AUTHOR: Sandulova, A. V.; Bogoyavlenskaya, I. P.; Pyrsko, L. I.

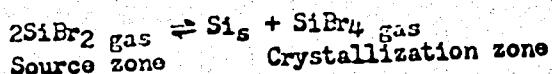
ORG: L'vov Polytechnic Institute (L'vovskiy politekhnicheskiy institut)

TITLE: Effect of impurities on the growth of silicon whiskers from the gaseous phase

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 9, 1966, 1684-1685

TOPIC TAGS: silicon single crystal, single crystal growth, crystal dislocation

ABSTRACT: The effect of the following impurities on the growth of silicon whiskers was studied: Pt, Au, Ag, Cu, Ni, As, Sb, In and O. The crystals were grown in a closed quartz ampoule by means of the disproportionation reaction



Sb, In and O were found to slow down the growth of Si whiskers, and all the remaining impurities to accelerate it. The growth rate was determined as a function of the amount of each individual growth-stimulating impurity. The data obtained are used to explain the influence of the impurity on the crystallization mechanism: the impurity atoms increase the density of dislocations on the crystals of the substrate, thus

UDC: 546.28:548.552

Card 1/2

L 08403-67
ACC NR: AP6030780

promoting the nucleation and growth of the whiskers. Si whiskers grown from both pure Si and Si containing impurities are structurally perfect and free of dislocations.
Orig. art. has: 3 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 07Oct65/ ORIG REF: 002/ OTH REF: 002

Card 2/2 S

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343730007-3

BULEYEV, N.I. (Moskva); POLOSUKHINA, K.N. (Moskva); PYSHIN, V.K. (Moskva)

Hydraulic resistance and heat transfer of a turbulent liquid flow
in a rod lattice. Teplofiz. vys. temp. 2 no.5:749-757 S-0 '64.
(MIRA 17:11)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343730007-3"

CHAUSHU, Em. [Ceausu, Em.]; TORZHESKU, V. [Torjescu, V.]; KALOTA, M. [Calota, M.]; PYRVU, D. [Pirvu, D.]; PARASKIV, D. [Paraschiv, D.]; ANTONIADE, M.

Ornithine carbamoyltransferase and benzidine oxidase in epidemic hepatitis. Vop. med. khim. 9 no.4:44-418 Jl-Ag'63
(MIRA 17:4)

1. Infektsionnaya bol'nitsa g. Turnu-Severin, Rumynskaya
Narodnaya Respublika.

TIKHONOV, G.F. and FYRYALOV, A.A.

"Thermomechanical treatment of powders for required properties."

TITLE: The Sixth All-Union conference on Powder Metallurgy (Held at
Moscow, 21 November 1962)

SOURCE: Poroshkovaya metallurgiya, no. 3, 1963. p. 110

BAGAYEV, A.N.; VODZINSKIY, Yu.V.; PYRYAKOVA, A.M.

Investigating the distillation of wood tar and its products.
Gidroliz. i lesokhim.prom. 18 no.4:9-11 '65.

(MIRA 18:6)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektnyy institut
lesokhimicheskoy promyshelnosti.

ACCESSION NR: AR4018315

3/0187/64/000/001/0037/0037

SOURCE: RZh. Metallurgiya, Abs. 1G265

AUTHOR: Tikhonov, G. F.; Sivov, A. V.; Pyryalov, L. A.

TITLE: Effect of the particle size of 1Kh18N9T steel powder on its properties

CITED SOURCE: Tr. Gor'kovsk. politekhn. in-ta, v. 19, no. 1, 1963, 42-50

TOPIC TAGS: steel powder, steel powder flow, steel powder particle size

TRANSLATION: A study was made of the effect of the particle size on the properties of reduced powder with composition (in %): C 0.11; Si 0.12; P 0.002; S 0.011; Cr 18.77; Ni 10.45; Ti 0.51; Mn, trace. Bulk density of the powder varies between 1.49 and 2.59 g/cm³ and flow characteristic varies from 0.46 to 1.58 g/sec. The results of a study of the bulk density versus particle size of a mixture of three powder fractions are represented in the form of a three-dimensional diagram plotted on the basis of a concentration triangle. For the reduced powder, bulk density decreases with increasing content of coarse fraction in the mixture. The opposite dependence is observed in pulverized and atomized powders. Analysis of the relationships discovered in the change of bulk density with flow characteristic showed

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that these quantities depend only on the amount of coarse and fine fractions present in the mixture. The authors recommend the use of the concentration-triangle principle in calculating density ratio and flow characteristic of powder mixtures.
V. Miroshnikov

DATE REC'D.

SUB CODE: MM

ENCL: 00

Card 2/2

ACC NR: AP6036893

(v)

SOURCE CODE: UR/0226/66/000/011/0009/0013

AUTHOR: Tikhonov, G. F.; Pyryalov, L. A.; Sorokin, V. K.

ORG: Gor'kiy Polytechnic Institute im. A. A. Zhdanov (Gor'kovskiy politekhnicheskiy institut)

TITLE: Selection of powders for obtaining present properties of porous materials and pressings

SOURCE: Poroshkovaya metallurgiya, no. 11, 1966, 9-13

TOPIC TAGS: metal powder, porosity, filtration, particle size

ABSTRACT: An experimental analysis was made of the correlation between the porosity, particle size, fineness of filtration filtering and the permeability factor of porous materials. A new formula is derived for determining the permeability factor at a given porosity and particle size of the material. Experimental data are presented for the fineness of filtration. One table showing the correlation of the fineness of filtration with the powder particle size and the powder fraction with fineness of filtration are given. Orig. art. has: 3 formulas and 5 tables. [Based on authors' abstract]

[NT]

Card 1/1 SUB CODE: 11/SUBM DATE: 20Oct66/ORIG REF: 008/

L 24801-66 EWP(e)/EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k) IJP(c) JD/HW

ACC NR: AP6011344

SOURCE CODE: UR/0226/66/000/003/0007/0013

AUTHOR: Tikhonov, G. F.; Pyryalov, L. A.; Chertok, M. M.

ORG: Gor'kiy Polytechnic Institute im. A. A. Zhdanov (Gor'kovskiy politekhnicheskiy institut)

TITLE: Effect of spheroidization on the structure and properties of powder

SOURCE: Poroshkovaya metallurgiya, no. 3, 1966, 7-13

TOPIC TAGS: powder metallurgy, iron powder, stainless steel powder, steel micro-structure, cold rolling, spheroidization

ABSTRACT: The effects of spheroidization on the structure and properties of powders were studied using iron powder manufactured by the Ulyan Metallurgical Plant and 1Kh17N2, 1Kh18N15, and 1Kh18N9T stainless steel powders obtained by the simultaneous reduction method. To study the effect of spheroidization on the microcrystalline structure of powder, only the 0.200 + 0.160 mm fraction was tumbled. Prior to spheroidization it was annealed for 2 hours at 650C. As a result of tumbling the iron and stainless steel powders approximated the properties of powders of spheroidal particles. The retention of a spongy structure by the powder particles makes them a satisfactory material for rolling and pressing, as a result of which they can be recommended for the manufacture of spongy sintered materials for highly effective use as filters. Orig. art. has: 4 figures and 6 tables. [AM]

SUB CODE: 11, 13, 20/ SUBM DATE: 200ct65/ ORIG REF: 006/ OTH REF: 002/

Card 1/1 87

ACCESSION NR: AR4018307

8/0137/64/000/001/0034/0034

SOURCE: RZh. Metallurgiya, Abs. 10238

AUTHOR: Tikhonov, G. P.; Pyryalov, L. A.

TITLE: Effect of cold deformation and spheroidisation on the properties of stainless steel powder

CITED SOURCE: Tr. Gor'kovsk. politekhn. in-ta, v. 19, no. 1, 1963, 51-59

TOPIC TAGS: cold deformation, stainless steel powder, steel powder rolling, powder particle spheroidization

TRANSLATION: Stainless steel powders obtained by reduction are characterized by good rollability and pressability, but their particles have a rough surface which prevents the use of these powders for filters made by rolling. Stainless steel powders can be milled in order to give them a spherical shape. 1Kh18N9T, 1Kh18Ni5, and 1Kh17N2 steels were milled for 4, 6, 10, and 12 hr. After milling the particles possessed a nearly spherical shape. The most pronounced change in particle shape was displayed by powders of 1Kh18Ni5 and 1Kh17N2 steels. Bulk density and flow characteristic of the powders increase with milling time. The effect of the size

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and shape of powder particles on the properties of porous materials was studied on specimens made by pressing and rolling powder of 1Kh17N2 steel. The flexibility of the raw strip decreases with increasing milling time and decreasing size of powder particles. This is explained by the fact that the powder particles are work hardened during milling, and their shape becomes close to spherical, resulting in a decrease in contact surface. The permeability of porous materials obtained by rolling the powders is determined by the size and shape of the powder particles and also by porosity of the material. Sintering does not affect the dependence of permeability on particle size, but as the latter decreases, the absolute value of the permeability diminishes markedly owing to increased shrinkage. V. Neshpor

SUB CODE: MM

ENCL: 00

Card 2/2

8/0187/64/000/001/0037/0037

ACCESSION NR: AR4016316

SOURCE: RZh. Metallurgiya, Abs. 1G256

AUTHOR: Aksenov, G. I.; Pyryalov, L. A.

TITLE: Study of the properties of a porous strip

CITED SOURCE: Tr. Kuybyshevsk. aviat. in-t, vyp. 16, 1963, 71-84

TOPIC TAGS: porous iron powder strip, iron powder strip permeability, iron powder strip porosity

TRANSLATION: A detailed study was made of the dependence of the permeability factor of a porous strip on the type of filtering liquid, porosity, thickness, and filtration pressure. The investigation was carried out on specimens produced by rolling Fe powder of the Sulin plant. Porosity of the specimens was 15-52%. It was found that there is no direct functional dependence between porosity and permeability. The latter is independent of the nature of the filtered liquid while for the same particle size, the permeability depends on the porosity, increasing exponentially with it. As the thickness of the specimen decreases, the permeability coefficient increases and is independent of pressure in the region of laminar

Card 1/2

TIKHONOV, G.F.; PYRYALOV, L.A.; LEBEDEVA, G.V.

Effect of cold deformation on the properties of stainless steel
powders. Trudy LPI no.222:45-52 '63. (MIRA 16:7)
(Rolling (Metalwork)) (Steel, Stainless) (Powder metallurgy)

PYRZALOVA, P.S., ZILBERMAN, Ye.N.

Reduction of aromatic and branched aliphatic nitriles with
stannous chloride. Izv. vys. ucheb. zav.: khim. i khim. tekhn.
8 no.1:82-87 '65. (MIRA 18:6)

1. Gor'kovskiy politekhnicheskiy institut imeni Zhdanova,
kafedra tekhnologii organicheskogo sinteza.

5(3)

AUTHORS: Smolyan, Z.S., Pyryalova, P.S., S/074/60/029/01/002/005
Kurdyumova, N.A. B008/B006

TITLE: Progress in the Field of Chlorination of Saturated Hydrocarbons

PERIODICAL: Uspekhi khimii, 1960, Vol 29, Nr 1, pp 23-54 (USSR)

ABSTRACT: This is a survey of papers published in the USSR and in foreign countries from 1947 to 1958 on the chlorination of saturated hydrocarbons. A marked growth of the chemical industry of the USSR is planned for the period between 1958 and 1965. The necessity of utilizing natural and industrial petroleum gases as raw materials is mentioned. At present, there is a noticeable tendency to increase the production of chlorine-substituted hydrocarbons. Chlorine derivatives of hydrocarbons can be prepared in various ways: The methods mainly applied are 1) hydrochlorination and chlorination of unsaturated hydrocarbons, and 2) chlorination of saturated hydrocarbons. Valuable work was done in this field by Butlerov and V.V. Markovnikov (Ref 6), D.V.Tishchenko (Ref 8), foreign (Refs 10-13), and Soviet scientists (Refs 14-29). N.N.Semenov and his school (Refs 14,15,16,29) are particularly noteworthy for

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Progress in the Field of Chlorination of
Saturated Hydrocarbons

S/074/60/029/01/002/005
B008/B006

their theoretical and experimental investigations of the mechanism of chain reactions. By reason of their argumentation, the chain mechanism of photochlorination may be regarded as an established fact. Further papers on this subject are given in references 10, 29-47. In industry, thermal chlorination of paraffins is carried out at 400 - 600°. These temperatures ensure a considerable reaction rate. Apart from chain reactions, homogeneous bimolecular reactions evidently take place in thermal chlorination. At sufficiently high temperatures, thermal chlorination is to a greater or less extent accompanied by pyrolysis of the initial and chlorinated products. Also, a certain amount of isomerization of intermediates occurs. Thus, polychlorides are formed not only by chlorination of the monochloride, but also by chlorination of compounds formed by pyrolysis or isomerization. Investigations of the chlorination of saturated hydrocarbons is mainly concentrated on the chlorination reactions of methane (Refs 10, 23, 33, 34, 48-71). The thermal chlorination of methane, which has been realized on an industrial scale in the USSR, is described in detail in reference 72. The production of methylene

Card 2/5

Progress in the Field of Chlorination of
Saturated Hydrocarbons

8/074/60/029/01/002/005
B008/B006

chloride in England and Eastern Germany is treated in references 73 and 74 respectively. Further chlorination methods applied in Germany are described in references 75-78. The usual preparation of carbon tetrachloride by reacting elemental chlorine with carbondisulfide (Refs 78-79) is replaced by the thermal or photochemical chlorination of methane (Ref 80). A new method developed in Romania is mentioned (Ref 81). The chlorination reactions of the other gaseous paraffins, (e.g., ethane, propane, butane) are less thoroughly investigated. The thermal chlorination of ethane is described in references 59, 82-86, and the thermal chlorination of propane and other hydrocarbons in references 6, 19, 23, 27, 53, 59, 87-104. Comparatively little has been published on catalytic and photochemical chlorination processes. Of these, the reactions of methane and ethane were mainly investigated. A.V. Topchiyev and V.P. Alaniya (Ref 105), showed that the application of homogeneous catalysts in radical reactions yields very interesting results. It may be seen from publications (Refs 106-111) that various metal chlorides as well as adsorbing materials mixed with crushed calcium oxide have been used as catalysts. In paraffin chlorination, the

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Progress in the Field of Chlorination of
Saturated Hydrocarbons

S/074/60/029/01/002/005
B008/B006

conditions required to obtain a certain reaction product depend not only on the type of catalyst but also on the initial paraffin. In photochlorination of paraffins, the substitution rate of primary and secondary hydrogen atoms is hardly influenced by the use of catalysts such as the chlorides of antimony, lead, aluminum, titanium, bismuth, or by iodine or sulfur. The catalytic chlorination of methane is discussed in references 24, 25, 48, 109, 112-138, and that of ethane and other saturated hydrocarbons in references 11, 21, 105, 109-111, 113, 139-147. The photochlorination reaction, which involves the splitting of a molecule into two atoms or radicals by a photon, is of great significance for the investigation of the theory of chain reactions. Both gaseous and liquid hydrocarbons can be chlorinated by the photochemical method (Refs 148-174). At present, great interest is taken in initiated chlorination. The introduction of materials into the reaction zone, which are able to form a great number of radicals, facilitates the dissociation of chlorine molecules into atoms, thus enabling chlorination at lower temperatures. In references 7, 10, 106, 107, 110, 176-180 low-temperature chlorination and the applica-

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Progress in the Field of Chlorination of
Saturated Hydrocarbons

S/074/60/029/01/002/005
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tion of various types of initiators are described. The following Soviet scientists are mentioned: B.A.Krentsel', A.V. Topchiyev, D.Ye.Il'ina, V.A.Nekrasova, N.I.Shuykin, Ya.P. Choporov, O.A.Tishchenko, V.T.Vdovichenko, I.P.Galenko, I.G. Sarashvili, R.S.Galanina, A.S.Nekrasov, A.Trifonov, A.I. Kipriyanov, T.P.Kussner, N.A.Pokatilo, L.N.Andreyev, S.S. Nametkin, A.G.Serebrennikova, A.Dobryanskiy, Ye.Gurevich, A.Lemke, D.V.Tishchenko, N.I.Kursanov, R.S.Galanina, Yu.G. Mamedaliyev, M.Efendieyeva, M.M.Ketslakh, D.M.Rudkovskiy, I.F.Suknevich, L.N.Terenin, and V.N.Kondrat'yev. There are 13 figures, 5 tables, and 180 references, 53 of which are Soviet.

Card 5/5

53700

²⁹⁰⁴¹
S/081/61/000/018/021/027
B103/B101AUTHORS: Smolyan, Z. S., Kurdyumova, N. A., Pyryalova, P. S.

TITLE: Low-temperature chlorination of ethane in the presence of initiators

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1961, 340, abstract
18L10 (Sb. nauchn. rabot In-t Fiz.-organ. khimii AN BSSR,
no. 8, 1960, 119-125)

TEXT: The possibility of a low-temperature chlorination of ethane in CCl₄ in the presence of initiators was pointed out. The reaction products are halogen derivatives of ethane with different degrees of substitution (27-35% C₂H₅Cl, 65-75% polychloro ethanes). Practical hints for determining the parameters of the process and its realization in an apparatus are given. [Abstracter's note: Complete translation.]

X

Card 1/1

ZIL'BERMAN, Ye.N.; PYRYALOVA, P.S.

Reduction of aliphatic nitriles under conditions of Stephen
reaction. Zhur.ob.khim. 33 no.10:3420-3425 O '63.

(MIRA 16:11)

1. Gor'kovskiy politekhnicheskiy institut.

ZIL'ERMAN, YU.N.; PYRYALOVA, P.S.

Cyclization of succinic and glutaric acid dinitriles in the presence
of hydrogen chloride. Zhur. org. khim. 1 no.6:983-987 Je '65.
(MIRA 18:7)

1. Gor'kovskiy politekhnicheskiy institut.

L 11521-66 EWT(m)/EWP(j)/T/EWA(c) RPL WW/RM
ACC NR: AP6001871 SOURCE CODE: UR/0190/65/007/012/2150/2155
AUTHORS: Zil'berman, Ye. N.; Pyryalova, P. S.; Pomerantseva, E. G.
ORG: Gor'kiy Polytechnic Institute im. A. A. Zhdanov (Gor'kovskiy politekhnicheskiy institut)
TITLE: Polymerization of malononitrile in presence of hydrogen chloride
SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2150-2155
TOPIC TAGS: polymer, polymerization polycondensation, hydrogen chloride, malonic ester, ether, benzene
ABSTRACT: The low temperature (0--20°C) polymerization of malononitrile in presence of HCl was studied. The study is an extension of a previously reported work by Ye. N. Zil'berman and P. S. Pyryalova (Zh. organich. khimii, 1, 983, 1965). The reaction was carried out at 0°C and room temperature by passing HCl gas through an ether or benzene solution of malononitrile. The reaction proceeded with a quantitative elimination of NH₄Cl and yielded a mixture of two different polymers. Heating of the resultant polycondensates led to further polycondensation accompanied by further elimination of NH₄Cl and formation of conjugated bonds, as evidenced by EPR spectroscopy. The structure of the polymers was studied by IR and UV spectroscopy. The intrinsic viscosities of the polymers were determined. The experimental results are presented in graphs and tables (see Fig. 1).
Card 1/2 UDC: 66.095.26+678.745

L 11521-66

ACC NR: AP6001871

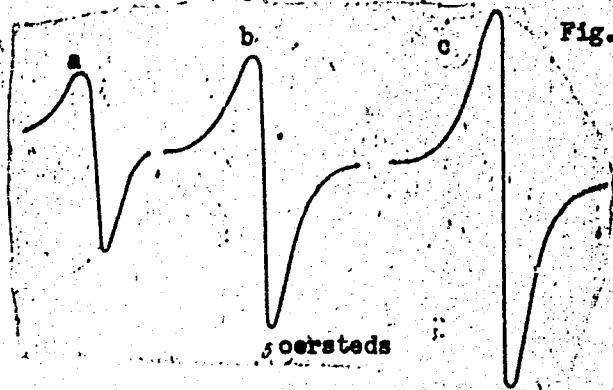


Fig. 1. EPR spectra recorded at equal amplification:

a - polymer heated to 250°C
(original melting point 94--97°C
insoluble in benzene) 2×10^{17}
spins/g (dark-brown);
b - polymer heated to 350°C
(original melting point 248--250°C
insoluble in common organic
solvents) 2.7×10^{18} spins/g
(black);
c - polymer (b) heated to 450°C;
 3.4×10^{18} spins/g (black).

It is suggested that the polycondensation proceeds via trimerization of the malono-nitrile and formation of substituted diaminopyridines and aminopyridines, which subsequently undergo polycondensation. Orig. art. has: 1 table, 1 graph, and 4 equations.

SUB CODE: 0711 / SUBM DATE: 30Jan65 / ORIG. REF: 006 / OTH REF: 004

Card 2/2

GOROSHCHENKO, Ya.G.; VOLKUVA, M.I.; BABKIN, A.G.; PYRYAYEV, N.K.

Gravimetric method for the quantitative determination of niobium
and tantalum following extraction with cyclohexanone. Zhur.anal.
khim. 18 no.6:739-742 Je '63. (MIRA 16:9)

1. Kola Branch of the Academy of Sciences, U.S.S.R.
(Niobium--Analysis) (Tantalum--Analysis) (Cyclohexanone)

L 10697-63

EWP(q)/EWT(m)/BDS--AEFTC/ASD--JD

ACCESSION NR: AP3002536

S/0075/63/018/006/0739/0742

56

AUTHOR: Goroshchenko, Ya. G.; Volkova, M. I.; Babkin, A. G.; Pyryayev, N. K.

TITLE: Quantitative gravimetric determination of niobium and tantalum after their extraction with cyclohexane 21 27

SOURCE: Zhurnal analiticheskoy khimii, v. 18, no. 6, 1963, 739-742

TOPIC TAGS: tantalum gravimetric determination, niobium gravimetric determination, cyclohexane

ABSTRACT: A relatively rapid gravimetric method for the determination of niobium and tantalum has been developed. The method is based on the extraction of these metals with cyclohexane from an aqueous solution containing 400 g/l of H₂SO₄, 200 g/l of (NH₄)₂SO₄ and 100 g/l of HF. Cyclohexane is a specific extractant for niobium and tantalum and especially when ammonium sulfate is added to the solution. An aqueous solution containing about 100 g/l of H₂SO₄ and 50 g/l (NH₄)₂SO₄ will selectively extract niobium, thus gives the possibility of separating niobium from tantalum after their initial extraction with cyclohexane. According to the spectral analyses the elements Al, Y, Zr, Hf, Pb, Th, V, As, Bi, Cr, Mo, W, U, Mn sup +2 and Fe in fair amounts are

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L 10697-63
ACCESSION NR: AP3002536

not extracted with cyclohexane and therefore do not interfere. Ti, Sn and Sb are partially extracted with cyclohexane. Mn₂O₃ sub 4 sup - extracts almost completely with cyclohexane and therefore it must be converted to the reduced state Mn⁺² by addition of Na₂S₂O₃ sub 4 · 2H₂O sub 2 O to render it inactive. The P₂O₅ in quantities larger than 50 mg also interferes. All experiments were checked against standard solutions. Orig. art. has: 3 tables.

ASSOCIATION: Kol'skiy filial AM SSSR, Apatity (Kola Branch, Academy of Sciences SSSR)

SUBMITTED: 03Aug62

DATE ACQ: 12Jul63

ENCL: 00

SUB CODE: 00

NO REP Sov: 004

OTHER: 001

Card 2/2

S/200/62/000/011/007/008
D204/D307

AUTHORS: Pyr'yev, M. F. and Batsanov, S. S.

TITLE: Spectral analysis of binary mixtures of the Ce-group lanthanides

PERIODICAL: Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya, no. 11, 1962, 140-141

TEXT: The present work is concerned with the spectral analysis (between 3800 and 4500 Å) of La-Nd, Nd-Sm, and Pr-Nd chloride mixtures, in which the concentrations of one component in the other were 1 - 50%, using the $\text{MC}\Pi\text{-}67$ (ISP-67) spectrograph. The spectra were excited by a 5a a-c arc. Three standard samples were used to

plot a calibration curve (linear within 5%) of ΔS versus $\log \frac{c_1}{c_2}$ 100%, where $\frac{c_1}{c_2}$ is the concentration ratio of the two elements in the sample and ΔS is the difference in the degree of blackening of

Card 1/2

Spectral analysis of ...

S/200/62/000/011/007/008
D204/D307

the two lines on the photographic plate. Concentrations were calculated by the method of Shvabiradze (ZhAKh, 14, 562 (1959)). The mean arithmetical error of the determinations was 4 - 5%. There is 1 table.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk (Institute of Inorganic Chemistry, Siberian Branch of the AS USSR, Novosibirsk)

SUBMITTED: January 20, 1962

Card 2/2

VAL'TSEV, V.K.; AVVAKUMOV, Ye.G.; PYR'YEV, M.F.

Distribution of lanthanides in an ammonium nitrate melt during
zonal crystallization. Izv.Sib.otd.AN SSSR no.6:71-74 '61.
(MIRA 14:6)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR,
Novosibirsk.
(Rare earth metals) (Ammonium nitrate)

L 13013-63

EWP(q)/EWT(m)/BDS

AFFTC/ASD

JD/JG

S/0289/63/000/001/0152/0154

57
56

ACCESSION NR: AP3002908

AUTHOR: Val'tsev, V. K.; Avvakumov, Ye. G.; Pyotr'yev, M. F.; Kravchenko, L. Kh.

TITLE: Separation of lanthanides in ammonium nitrate with the help of zone crystallization. Part 3

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 1, 1963, 152-154

TOPIC TAGS: zone crystallization, La, Hd, Er, Sm, Gd, Yt, lanthanide separation

ABSTRACT: The possibility of separating La, Nd, Er, Sm, Gd, and Yt as double sulfates from ammonium nitrate melts by zone crystallization was investigated. Separation was indicated after only 3 passes of the molten zone at 0.82 cm/hr, using ammonium sulfate as precipitant; the lanthanide double sulfates settled out in the central portion of the bar. (Ammonium oxalate was also effective as precipitant.) The lighter element is more concentrated in the latter part of the ingot; it dissolves more readily in the NH₄NO₃ than the heavy element and passes to the end of the ingot. Optimum conditions for selective separation (selection of precipitant, length of ingot, number of passes, lanthanide concentration, etc.) remain to be worked out. Orig. art. has: 2 tables and 2 fig.

Card 1/21 Association: Inst. of Inorganic Chemistry, Siberian Dept., AN SSSR

5.2300

1081, 1155, 1228

23631

S/200/61/000/006/003/004
D206/D303

AUTHORS:

Val'tsev, V.K., Avvakumov, Ye. G. and Pyr'yev, M.F.

TITLE:

Distribution of lanthanoids in the fusion of ammonium nitrate in the process of zoned crystallization

PERIODICAL:

Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya, no. 6, 1961, 71-74

TEXT: The purpose of this work was the study of the distribution of the reaction products of rare-earth oxides (La, Pr, Nd, Sm, Er and Y) with fused ammonium nitrate in the process of zoned crystallization. There appears to be little published information concerning the application of zoned crystallization for separating and purifying rare-earth elements, although the method has been employed by Sue et al (Ref. 1: P. Sue, I. Pauly, Bull. Soc. Chim. de France, No. 5, 593 (1958) for isolating other elements with similar chemical properties. Further research by V. Val'tsev and V. Kovyrzina (Ref. 5: Izv. sibir. otdel. Akad Nauk SSSR, No. 10, 1960) resulted in the development of a technique for obtaining the double nitrate of lan-

X

Card 1A

23631

S/200/61/000/006/003/004
D206/D303

Distribution of lanthanoids...

thanum and in certain data regarding its solubility in fused ammonium nitrate. The experimental procedure adopted by the authors comprises the initial solution of rare-earth oxides in molten ammonium nitrate; the cooling of the melt in an aluminum boat, with the formation of a semi-cylindrical slab having a length of 32 cm; the refusion of the slab at 170 - 190°C in a molybdenum-glass tube by means of a heater which is fitted with a thermocouple and rheostat to ensure smooth temperature control and which is moved over the slab at a speed of 0.82 cm/hr; the removal of the slab from the boat after a period of 45 hours; and the subsequent dissection of the slab into ten equal parts which are then analyzed for the rare-earths. During the passage of the salt slab through the molten zone the rare-earths are redistributed in such a way that their concentration at the end of the slab considerably exceeds the original value. The distribution curves for the nitrates of Nd, Sa and Y are shown graphically. The coefficient of enrichment (K) - necessary for comparing the behavior of elements in the process of zoned crystallization - was calculated from the ratio of their initial to final concentration. After three slab runs through the fused zone the dis-

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S/200/61/000/006/003/004

D206/D303

Distribution of lanthanoids...

tribution of elements at the end of the slab is in direct linear relationship to their atomic weights (A): $K = 0.063A - 7.33$. This relationship also holds for a slab of heterogeneous composition prepared in a slightly different manner. Coefficients of separation - the ratio of the enrichment coefficients for certain pairs of elements - were found in order to appraise the possibility of purifying particular elements. They reach a maximum when nitrates are crystallized in a heterogeneous slab, after no less than nine runs through the fused zone. The pairs Sa - Y and Nd - Sa were therefore subjected to zoned purification under these conditions which are evidently the most favorable for purifying certain pairs of rare-earth elements. A relatively pure separation is effected in the case of samarin and yttrium: the yttrium content rises from 97.1% to 99.2%, while the samarin concentration falls from 2.9% to 0.8%. The removal of neodymium from yttrium, however, was not successfully accomplished. This is believed to be due to the fact that the distribution of rather large amounts of rare-earths in ammonium nitrate differs from the normal distribution specified by existing equations (Ref. 6: Metody polucheniya chistykh metallov (Methods of Obtaining

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Card 3/4

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S/200/61/000/006/003/004

D206/D303

Distribution of lanthanoids...

Pure Metals), Sb. perevodov (Collection of translations), IL, 1957) which are only applicable in the case of a low concentration of impurities in a slab in the process of zoned crystallization. The authors conclude that their method is only suitable for separating some elements of the yttrium and cerium groups; it is not recommended for purifying mixtures consisting of elements from other rare-earth groups with very similar properties. There are 3 figures, 1 table and 6 references: 2 Soviet-bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: J.K. Marsh, J. Chem. Soc. No. 1, 2051 (1946); R.C. Vickery, J. Chem. Soc. No. 10, 2508 (1949); T. Meller, V. Aftandalian, J. Amer. Chem. Soc. 76, 5249 (1954).

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR (Organic Chemistry Institute of the Siberian Division, AS USSR) Novosibirsk

SUBMITTED: September 7, 1960

Card 4/4

PYR'YEV, M.F.; BATSANOV, S.S.

Spectrum analysis of binary mixtures of lanthanides of the cerium group. Izv. Sib. otd. AN SSSR no. 11:140-141 '62. (MIRA 17:9)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

ZAKHARCHENKO, V. N., gornyy inzh.; TUMAKOV, V. A., gornyy inzh.;
PYS', F. N., gornyy inzh.

Working thin ore bodies with slim inclined boreholes. Gor.
zhur. no.11:36-41 N '62. (MIRA 15:10)

1. Sredneaziatskiy gosudarstvennyy institut tsvetnykh metallov,
Almalyk, Tashkentskaya oblast'.

(Kurgashinkan region--Boring)

L 15006-55 EWT(m)/EWP(k)/EWA(d)/EWP(t)/EWP(b) Pf-4 RM/JD/HW

ACCESSION NR: AP4045899

S/0021/64/000/009/1159/1162/

B

AUTHOR: Py*sarenko, G. S. (Pisarenko, G. S.) (Academician AN UkrSSR);
Kozlov, I. A.

TITLE: Investigation of deformation of a rotating disk in the region of
extremely small elastic-plastic deformations

SOURCE: AN UkrRSR. Dopovidi, no. 9, 1964, 1159-1162

TOPIC TAGS: plastic theory, stressed state, new parameter, carrying capacity,
machine part

ABSTRACT: Discussed are very small (~1%) deformations which are not in conformity
with the plastic theory which holds for larger deformations. This was evident
from experiments carried out by the authors.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED ORIGINALLY

Card 1/2

L 15006-65

ACCESSION NR: AP4045899

ASSOCIATION: Instytut problem materialoznavstva AN URSR (Institute for the
Problems of the Strength of Material, AN URSR)

SUBMITTED: 18Mar64

ENCL: 00

SUB CODE: ME, AS

NO REF Sov: 004

OTHER: 000

Card 2 APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343730007-3'

ACCESSION NR: AP4010059

8/0021/64/000/001/0059/0062

AUTHOR: Pytsarenko, G. S. (Corresponding member); Lebedev, A. O.

TITLE: On the criterion of strength of materials

SOURCE: AM UkrSSR. Dopovidi, no. 1, 1964, 59-62

TOPIC TAGS: material strength, stress tensor, stress tensor invariant, stressed silicon carbide

ABSTRACT: Proof is given of the applicability of an estimate of the strength of materials in the form of a sum of two functions, one of which is a function of the stress tensor invariants, while the second, which is a function of the volume of the strained material and some of its constants, is of a statistical nature. The results are presented of an experimental study of the strength on a silicon carbide base with a plane stressed state. These results confirm the applicability and usefulness of the method. Orig. art. has 3 graphs and 6 numbered equations.

Card 1/2

ACCESSION NR: AP4010059	DATE ACQ: 10Feb64	ENCL: 00
ASSOCIATION: Instytut Metalochromisty i spetsialiv AN UkrSSR (Institute of Metallo-ceramics and Special Alloys, AN UkrSSR)	NO REP Sov: 005	OTHER: 002
SUMMITTED: 03Jun63		
SUB CODE: AP		
Card 2/2		

29176
 S/021/61/000/010/002/008
 D251/D303

26.2122

AUTHORS: Pysarenko, H.S., Corresponding Member AS UkrSSR,
 Vasilenko, M.V., and Klikh, Yu.O.

TITLE: Coupled bending and torsional vibrations of a turbine
 blade during transition across resonance

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 10,
 1961, 1271 - 1274

TEXT: The authors state that the differential equations for the problem (ignoring unknown displacements in the direction of greatest rigidity of the cross-section of the blade) are of the form

$$\left. \begin{aligned} \frac{\partial^2}{\partial z^2} (EI \frac{\partial^2 y}{\partial z^2}) + m \frac{\partial^2 y}{\partial t^2} - mx_c \frac{\partial^2 \theta}{\partial t^2} &= \epsilon [q(z) \cos pt - f_1(z, t)] \\ - \frac{\partial}{\partial z} (GI_d \frac{\partial \theta}{\partial z}) + I_m \frac{\partial^2 \theta}{\partial t^2} - mx_c \frac{\partial^2 y}{\partial t^2} &= \epsilon [-m_z(z) \cos pt + f_2(z, t)] \end{aligned} \right\}, \quad (1)$$

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S/021/61/000/010/002/008
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Coupled bending and torsional ...

where EI , GI_d are the rigidity under bending and torsion respectively, m , I_m are the mass and moment of inertia of the mass of unit length of the blade, x_c is the distance between the centers of gravity and rigidity of the cross-section, $y(z, t)$ is the cross-section, $\theta(z, t)$ the angle of torsion, $q(z)$ the intensity of load on the axis of elasticity, $m_z(z)$ is the intensity of the moment of that load relative to the axis of torsion, p is the frequency of the perturbing force. The first approximation gives the partial solution

$$\begin{aligned} y(z, t) &= Y(z) a \cos(pt + \psi) \\ \theta(z, t) &= \Theta(z) b \cos(pt + \psi) \end{aligned} \quad (2)$$

where the coefficients of amplitude a and b and the phase angle are functions of time and satisfy

$$\frac{da}{dt} = -\frac{\chi_2(a)}{2\pi M\omega} - \frac{A}{M(\omega + p)} \sin \psi \quad (3)$$

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D251/D303

Coupled bending and torsional ...

$$\frac{d\psi}{dt} = \omega - p - \frac{\chi_1(a)}{2\pi M\omega} - \frac{A}{aM(\omega+p)} \cos \psi, \quad (3)$$

where

$$M = \int_0^l [mY^2 + 2\beta m x_c Y \Phi + \beta^2 I_m \Phi^2] dz$$

$$A = \int_0^l [q(z)Y(z) + \beta m_s(z)\Phi(z)] dz$$

$$\chi_1(a) = \int_0^l \int_0^{2\pi} [f_{10}(z, t)Y(z) + \beta f_{20}(z, t)\Phi(z)] \cos \tau dz d\tau \quad (4)$$

$$\chi_3(a) = \int_0^l \int_0^{2\pi} [f_{10}(z, t)Y(z) + \beta f_{20}(z, t)\Phi(z)] \sin \tau dz d\tau$$

$$\tau = pt + \psi$$

These equations were analyzed by computer and the results for transition across the resonance are given in the form of graphs (Fig.1). X

Card 3/4

Coupled bending and torsional ...

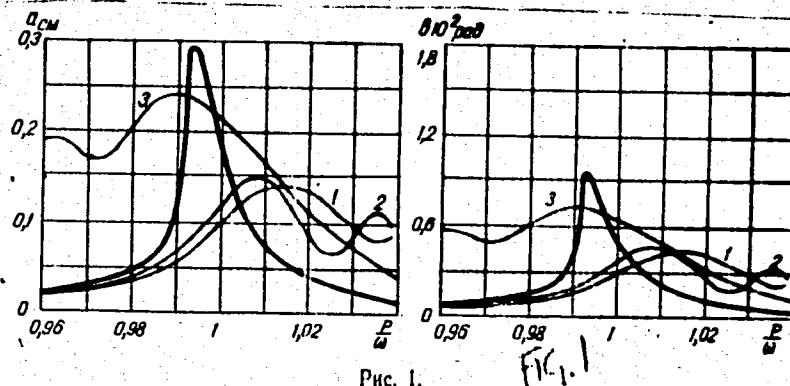
S/021/61/000/010/002/008
D251/D303

The article is concluded with a worked example. There are 2 Soviet-bloc references and 1 figure.

ASSOCIATION: Instytut metalokeramiky i spetsplaviv AN UkrSSR (Institute of Metal Powders and Special Alloys AS UkrSSR)

SUBMITTED: May 29, 1961

Fig. 1.



Card 4/4

Рис. 1.

FIG. 1.

PYRYATINSKY
EXCERPTA MEDICA Sec.4 Vol.11/3 Med.Microbio.,etc Mar 58

702. CHANGES IN IMMUNOLOGICAL REACTIVITY IN THE POLAR REGION IN
DIFFERENT SEASONS OF THE YEAR. (Russian text). - Pyryatinsky

L. B. - Z. MIKROBIOL. 1957, 3 (65-66) Tables 2

The immunological reactivity in 321 young people, living in the polar part of SSSR, was tested. To each person an intradermal injection of 0.1 ml. of an 'antihuman serum' was given. The serum was produced from rabbits immunized against human protein. As control the serum of normal rabbits was used. In the 1st group the test was performed in the polar night, in the 2nd group in the polar day. Both groups were of the same age. Of the 130 persons tested in the polar night, ++ or + reactions were observed in 35.3%; in the polar day group in 72%. The 3rd group of 80 persons was injected the first time in the polar night, the second time in the polar day. An enhancement of reaction was noticed in 55 persons (68.7%), 22 (27.5%) showed no change and 3 had a lowered reaction.

Wagner - Prague

M. PYSARENKO

PHASE I BOOK EXPLOITATION SOV/4398

Akademiya nauk URSR. Instytut elektrozvaryuvannya imeni Ye. O. Patona

Instytut elektrozvaryuvannya imeni Ye. O. Patona (Institute of Electric Welding imeni Ye. O. Paton) Kyyiv, Derzhtekhvydav URSR, 1959. 155 p. 1,300 copies printed.

Ed.: M. Pysarenko; Tech. Ed.: K. Husarov.

PURPOSE: This book is intended for technical personnel in welding.

COVERAGE: The author describes the administrative structure and functions of the Electric Welding Institute imeni Ye. O. Paton and the welding methods and equipment developed there and introduced into industry. A list of published works of the Institute is presented at the end of the book. No personalities are mentioned. There are no references.

Card=1/3

PYBER, Laszlo, mernok, tudomanyos munkatars

The hydrologically possible enlargement of the Hamor Reservoir.
Vizugyi Kozl no.4:620-627 '64.

1. Scientific Research Institute of Water Resources Development,
Budapest.

PYSENKO, N. A.

"The Development of New Types of Reflecting Projection Screens."
Cand Tech Sci, All-Union Sci-Res Cinephotographic Inst, Ministry of
Culture USSR, 11 Nov 54. (VM, 1 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

FYSHCHEVA, M.V.

Scientific pharmaceutical society of Saratov. Apt. de lo
12 no.6:67-68 N-D '63. (MIRA 17:2)

PYSHCHEVA, Z.M.

Relation between the physical and sowing qualities of
monospermous sugar beets, and the time of harvesting
the seed plants. Sakh.prom. 34 no.8:60-61 Ag '60.
(MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut
sakharinoj svetly.
(Sugar beets)

PYSENCOV, V.S., general-leytenant inzhenerno-tehnicheskiy sluzhby, prof.
zasluzhennyy deyatel' nauki i tekhniki.

"Indicators of the maneuverability, controllability, and stability
of airplanes" by G.S. Kalachev. Reviewed by V.S. Pyshnov. Vest. Vozd.
Fl. 41 no. 7:87-88 Jl '58. (MIRA 11:7)

(Navigation(Aeronautics)
(Aerodynamics)
(Kalachev, G.S.)

PYSHENKIN, A.D.

Effect of the shearing season on the color and quality of the wool
of blackhead sheep. Agrobiologiya no.6:123-125 N-D '58.
(MIRA 12:1)

1.Chernigovskaya gesudarstvennaya sel'skokhozyaystvennaya optychnaya
stantsiya. (Wool) (Sheep shearing)

CAND.
PYSHENKIN, A. D.: Master Biol Sci (diss) -- "One method of increasing the viability and productivity of sheep". Khar'kov, 1959. 22 pp (Min Higher Educ Ukr SSR, Khar'kov Order of Labor Red Banner State U im A. M. Gor'kiy), 150 copies (KL, No 6, 1959, 130)

Ca

7

Determination of cadmium and mercury with pyridine.

I. P. Ryazanov and M. V. Pyshcheva. *Uchenye Zapiski Sverdlov. Gorskogo Univ., N.-G. Chelyabinskogo, Khim. 15*, No. 4, 128-33 (in French, 131) (1940).—Satisfactory results in detn. Cd were obtained by the method of Spacu (C. A. 22, 1927; 23, 1940) in which the Cd is pptd. as $(\text{CdPyr})_2(\text{CNS})_2$ and weighed as such after drying with HgO and ether. Excellent results in detn. Hg were obtained by the method of Spacu (C. A. 23, 2100) in which the Hg is pptd. and weighed as $(\text{HgPyr})_2\text{Cr}_2\text{O}_7$. Excellent results were also obtained by the method of Lang in which the Hg is pptd. and weighed as HgCl_2Pyr . The conclusion is drawn that the methods of Spacu for the detn. of Cd and Hg produce accurate results and reduce the time of the analysis considerably (only 30-40 min. are required). For sepp. Cd from Hg the Hg is obtained in the form of HgCl_2Pyr according to Lang and Cd is pptd. in the filtrate as $(\text{CdPyr})_2(\text{CNS})_2$. Difficulties were encountered in washing and drying the HgCl_2Pyr which does not dissolve in water contg. pyridine, but dissolves in alc. The ppt. was, therefore, washed only with water contg. pyridine, but not with alc. This increased the time of drying from 15 min. to 2 hrs. No difficulties were encountered in drying Cd. The percentage errors for Hg and Cd were 0.05-1.5 and 0.08-1.63%, resp. Eight references. W. R. H.

ASB-11A METALLURGICAL LITERATURE CLASSIFICATION

STANDARD SUBJECT

SUBJECT INDEX AND KEY WORDS

RELATION

STANDARD SUBJECT

SUBJECT INDEX AND KEY WORDS

PYSHIN, V.K.

22819
S/170/61/004/005/002/015
B104/3205

21.4210

AUTHORS: Buleyev, N. I., Vvedenskiy, V. N., Nakhutin, I. Ye.,
Pyshin, V. K.

TITLE: Calculation of the temperature and the adsorptive capacity
of an adsorbent with internal sources of heat

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 5, 1961, 8-11

TEXT: The effect of dissipation of radioactive radiation on the tempera-
ture and capacity of an adsorbent has been studied. A gas containing a
radioactive component is blown through a tube of radius r_0 and length z_0
along the axis. The tube is filled with a granular adsorbent. The authors
attempted to determine the capacity of the adsorbent under steady condi-
tions. Therefore, it is obviously necessary to find the temperature
distribution in the adsorbent as a function of r and z . This temperature
distribution is expressed by the differential equation

$$\lambda \left(\frac{\partial^2 t}{\partial r^2} + \frac{1}{r} \frac{\partial t}{\partial r} + \frac{\partial^2 t}{\partial z^2} \right) - \frac{c c_p}{r} \frac{\partial t}{\partial z} = g(t) \quad (1),$$

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22819

S/170/61/004/005/002/015

Calculation of the temperature and the...

B104/3205

2
X

where λ is the effective coefficient of thermal conductivity of the granular adsorbent in the gas concerned, C_p the specific heat of the gas, g the density of the internal sources of heat, and G the weight of the gas passing through the tube per unit time. $g(t)$ is proportional to the amount $q(t)$ of radioactive gas adsorbed per unit volume at temperature t , and is proportional to the mean energy E of one decay and inversely proportional to half-life T : $g = 0.69 n q(t) E / T$, where n is the Loschmidt number. $q(t)$ can be expressed by the empirical relation $q(t) = q(t_0) \exp\{-k(t-t_0)\}$. k depends on the partial pressure p of the radioactive component but not on temperature. If $z_0/r_0 \gg 1$ and if the heat transport through the gas stream is much larger than the heat transport effected by heat conduction along z , i.e., if the term $\lambda \partial^2 t / \partial z^2$ in (1) is negligible, then it is possible to represent (1) in the form

$$\partial^2 \tau / \partial \varphi^2 + \frac{1}{\varphi} \partial \tau / \partial \varphi - \beta \partial \tau / \partial \xi = -\gamma \exp(-\tau) \quad (5)$$

after introduction of the variables $\varphi = r/r_0$, $\xi = z/r_0$, and $\tau = k(t-t_0)$.

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3104/E205

Calculation of the temperature and the...

(5) is solved with the following boundary conditions:

$$\tau_{\xi=0} = 0, (\partial \tau / \partial \xi)_{\xi=0} = 0, (\partial \tau / \partial \xi)_{\xi=1} = -\alpha \tau_0 / \lambda = -\delta \tau \quad (8.2),$$

where α is the heat-exchange coefficient at the boundary between the adsorbent and the wall of the tube. If $\beta = 0$, Eq. (5) can be represented in the form

$$\tau'' + \tau'/\rho = -\gamma \exp(-\tau) \quad (9).$$

The solution of this equation reads: $\tau = 2 \ln(\gamma_1 \rho^{h_1} + \gamma_2 \rho^{h_2}) - \ln \Psi \quad (10)$,

where γ_1 and γ_2 are constants, and $h_{1,2}$ are roots of the equation

$$h^2 + 2h + c/2 = 0. \quad \text{It is shown that } h_1 \text{ or } h_2 \text{ must be equal to zero and } c = 0. \\ \text{Thus, one obtains}$$

$$\tau = 2 \ln(\gamma_1 + \gamma_2 \rho^h) - \ln(\gamma_1 \gamma_2 / -\gamma) = \ln \left[-\frac{1}{8} (\sqrt{\gamma_1/\gamma_2} + \rho^h \sqrt{\gamma_2/\gamma_1})^2 \right]. \quad (12)$$

Hence, the solution depends only on γ , since γ_1/γ_2 can be determined from the condition (8.2): $f = \gamma_1/\gamma_2 = -(4/\gamma + 1) - \sqrt{16/\gamma^2 + 8/\gamma} \quad (13)$,

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Calculation of the temperature and the... S/170/61/004/005/002/015
B104/B205

wherefrom it follows that $\tau = \ln(f + \rho^2)^2 / (f + 1)^2$. When $\tau = F(\rho)$ is found, also the adsorptive capacity can be easily calculated:

$$Q = 2\pi r_0^2 z_0 q(t_0) \int_0^{\infty} \frac{(f+1)^2}{(f+\rho^2)^2} \rho d\rho = Q_0 \left(1 + \frac{1}{f}\right). \quad (17)$$

In general, Eq. (5) cannot be solved by quadratures, and numerical methods are applied instead. Such calculations have been made, and Fig. 2 shows the solutions obtained for three different values of γ . This figure illustrates the effect of the gas stream on temperature: In the initial part τ is notably smaller than at a certain distance from the inlet. From a certain value of $f = z/r_0$ onward τ may be assumed to equal the reduced temperature which holds for an infinitely extended cross section and is obtained from (14). There are 2 figures and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc.

SUBMITTED: October 3, 1960

Card 4/5

TITLE: Hydraulic resistance and heat transfer in turbulent fluid flow in a grid of bars

SOURCE: Teplofizika vysokikh temperatur, v. 2, no. 5, 1964, 749-757

TOPIC TAGS: heat exchange, nuclear reactor, turbulent flow, fluid velocity vector, temperature gradient

ABSTRACT: The authors solved the basic equations of motion and energy of a fluid stream in a bar grid such as the grids used for heat distribution in certain nuclear reactor types. Use was made of simplified expressions for the coefficients of turbulent viscosity and temperature conduction developed previously by N. I. Buleyev (V sb. "Voprosy teploobmena", Izd-vo AN SSSR, 1959). Consideration was made of grid bars arranged in both triangular and square fashion. The authors first computed the flow velocity field by considering the flow in a

Card 1/2

L 10715-65

ACCESSION NR: AP4047380

Plots are presented showing the manner of variation of the resistance coefficient with Reynolds number for a variety of grid and flow arrangements. By considering the grids as heat sources, the authors ...

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343730007-3

ASSOCIATION: none

SUBMITTED: 10Jun63

SUB CODE: ME

NO REF Sov: 006

ENCL: 00

OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343730007-3"

L 14461-65 EWT(m)/EPF(c)/EPF(n)-2/EPR Pr-4/Ps-4/Pu-4 AEDC(1)/AFWL/BSD/SSD

DM

ACCESSION NR: AP4036523

B S/0089/64/016/005/0407/0413

AUTHOR: Bagdasarov, Yu.Ye.; Kazachkovskiy, O.D.; Pinkhasik, M.S.; Py*shin, V.K.

TITLE: Study of unsteady operating conditions for natural circulation in multi-loop designs of nuclear reactors 19

SOURCE: Atomnaya energiya, v. 16, no. 5, 1964, 407-413

TOPIC TAGS: nuclear reactor cooling, liquid metal cooling, unsteady reactor operating condition, reactor emergency shutdown

ABSTRACT: The authors have developed a method of computation of unsteady operating conditions (emergency shutdown) for natural circulation in multiloop designs of nuclear reactors. The essential point to be considered is the delay factor which depends on the heat exchange between the coolant and the stationary parts

and liquid sodium were considered. Experimental results are in good agreement

Card 1/2

L 11464-65

ACCESSION NR: AP4036523

with the computations. Of the factors mentioned above, the most important one is the heat exchange between the coolant (sodium) and the stationary part of the structure. The natural circulation is a reliable cooling method for nuclear reactors. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 03Oct63

ENCL: 00

SUB CODE: NP

NO REF SOV: 003

OTHER: 000

39920

S/219/62/053/006/001/003

I015/I215

27.1140

AUTHOR

Pyshina, S. P.

TITLE

The effect of conditioned stimuli of varying duration on the increase in function of cortical cells

PERIODICAL: Byulleten' eksperimental'noy biologii i meditsiny, v. 53, no. 6, 1962, 3-6

TEXT: It has been previously shown that stimuli of short duration, when applied over a long period decrease the function of cortical cells. Experiments were now carried out on 4 dogs aged 6-8 years, in 7 series, each lasting 10-14 days. Stable, positive conditioned reflexes to sound, light, and metronome, had been elaborated prior to the experiment. A meat-bread powder was used as a non-conditioned stimulus. The cortical cell function increased following an alteration in the stimulation time, whereas repeated stimulations of identical duration caused a decrease in this function. Among factors affecting the increase in the cortical cell function were the "nervous characteristics" of the animal, the initial level of conditioned reflexe activity and the phase during which the shift in the duration of the stimulation occurred. Variations in stimulation time, increase the cortical cell function even at principally identical activities. There are 2 tables.

ASSOCIATION: Kafedra normal'noy fiziologii (zav.-prof. A. V. Kibyakov) i Leningradskogo meditsinskogo instituta imeni I. P. Pavlova (Chair of Normal Physiology — Dir. Prof. A. V. Kibyakov. — Ist Leningrad Medical Institute imeni I. P. Pavlov)

SUBMITTED: June 14, 1961

Card 1/1

X

PYSHINA, S.P.

Conditioned reflex reproduction of a form of the course of the process
of cortical excitation. Zhur. vys. nerv. deiat. 11 no.4:665-668 J1-Ag
'61. (MIRA 15:2)

1. Chair of Normal Physiology, Pavlov Medical Institute, Leningrad.
(CONDITIONED RESPONSE)

PYSHINA, S.P.

Interrelation of trace neural processes of excitation and inhibition
during brief action of conditioned stimuli. Zhur. vys. nerv.deiat.
11 no.5:902-907 S-0 '61. (MIRA 15:1)

1. Chair of Normal Physiology, Pavlov Medical Institute, Leningrad.
(CONDITIONED RESPONSE)

PISHINA, S.P.

Mechanism of action of a brief conditioned stimulus. Zhur.vys.nerv.
deiat. 10 no.6:861-863 N-D '60. (MIR 14:1)

1. Kafedra normal'noy fiziologii Leningradskogo meditsinskogo instituta
im. I.P.Pavlova. (CONDITIONED RESPONSE)

KUPALOV, P.S.; PYSHINA, S.P.

Tonus reflexes of the spinal cord. Fiziol. zh. SSSR 37 no.6:713-717
Nov-Dec 51. (CML 21:4)

1. Department of Physiology, First Leningrad Medical Institute imeni
I.P. Pavlov.

Pyshina, S. P.

Action of corticotropin on central nervous activity of dogs.
S. P. Pyshina (I.P. Pavlov Med. Inst., Leningrad). *Fiziol. Zhurn. S.S.R.* 42, 931-8 (1956).—The hormone injected into dogs at 1 unit per 2-10 kg. stimulates the active processes in the cortex; prolonged administration leads to overstimulation of cortical cells and development of a block; gradually increasing dosage produces temporary brief periods of stimulation. Differential block is not affected. The hormone has prolonged action for several days.

G. M. Kosokoff

PYSHINA, S.P.

Action of ACTH on the higher nervous activity in dogs [with summary
in English]. Fiziol.zhur. 42 no.11:931-938 N '56. (MLRA 10:1)

1. Kafedra normal'noy fiziologii Meditsinskogo instituta im. akad.
I.P.Pavlova, Leningrad.
(REFLEX. CONDITIONED.
eff. of ACTH in dogs (Rus))
(ACTH. effects.
on conditioned reflex funct. in dogs (Rus))

PYSHINA, S. P.

USSR/Medicine - Nervous System
Physiology
Medicine - Hypoglycemia

Nov/Dec 48

"Disturbances of the Higher Nervous System Due to Induced Insulin Hypoglycemia,
Report No I" V. G. Baranov, S. P. Pyshina, Ye. N. Speranskaya, Lab of Endocrinol,
Inst of Experimental Med, Leningrad, 7 $\frac{1}{4}$ pp

"Fiziol Zhur SSSR" Vol XXXIV, No 6

Experimental data showed: (1) Pronounced, but brief hypoglycemia led to regular
two-phase changes in the cerebral cortex. (2) On day of recovery from severe
hypoglycemia, all conditioned reflexes disappeared but returned through two
(subnormal and above normal) phases, 8-10 days in duration. (3) Analogous
conditions were of shorter duration in milder hypoglycemia with corresponding
periods of reduced reflex action.

61/49T47

PYSHINA, S. P.

USSR/Medicine - Nervous System -
Physiology
Medicine - Hypoglycemia

Nov/Dec 48

"Disturbances of the Higher Nervous System Due to Induced Insulin Hypoglycemia, Report No II," V. G. Baranov, S. P. Pyshina, Ye. N. Speranskaya, Lab of Endocrinol, Inst of Evolutionary Physical and Path of Higher Nervous Syst imeni Acad I. P. Pavlov, Lab of Endocrinol Inst of Experimental Med, Acad Med Sci USSR, 7½ pp

"Fiziol Zhur SSSR" Vol XXXIV, No 6

In these experiments, one or several small doses in several days produced a mild degree of hypoglycemia without external symptoms. Sugar content curves indicated the intensity of these conditions. Role of sympathetic nerve system in changes in the cerebral system due to hypoglycemia is only one link in a chain of physiological disturbances.

61/49T48

KUPALOV, P.S., FYZHEM, S.P.

Spinal Cord

Tonus reflexes of the spinal cord. Fiziol.zhur. 37, no. 6, 1951.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, APRIL 1952. UNCLASSIFIED.

USSR/Medicine - Physiology

FD-2701

Card 1/1 Pub. 33-10/28

Author : Pyshina, S. P.

Title : The effect of CaCl_2 and KCl on the tonic spinal reflexes of frogs

Periodical : Fiziol. zhur. 41, 64-70, Jan-Feb 1955

Abstract : Investigated changes in the tonic spinal reflexes of decerebrized frogs resulting from changes in the physiological state of the spinal cord produced by administration of CaCl_2 and KCl . Kymograms. Four references, all USSR (1 since 1940).

Institution : Chair of Normal Physiology, I Leningrad Medical Institute imeni Acad. I. P. Pavlov

Submitted : July 4, 1952

PYSHINA, Z.S.; MEYENSALU, E.R. [Meensalu, E.], starshiy agronom

On demonstration farms. Zashch. rast. ot vred. i bol. 7 no.1:12
'62. (MIRA 15:6)

1. Zaveduyushchaya otdelom zashchity rasteniy Tambovskoy opytnoy sel'skokhozyaystvennoy stantsii (for Pyshina). 2. Oporno-pokazatel'nyy sovtdioz "Nyaestaguse" zony goroda Kokhtla-Yarve Estonской SSR i Respublikanskaya stantsiya zashchity rasteniy (for Meyensalu).
(Plants, Protection of)

PYSHKALO, A.M. (Moskva)

New educational motion pictures on mathematics. Mat. v
shkole no.3:88-90 My-Je '62. (MIRA 15:7)
(Mathematics—Study and teaching)
(Motion pictures in education)

PYSHKALO, A.M. (Moskva)

Educational motion picture "Cartesian coordinate system and the
simplest diagrams." Mat. v shkole no.1:86-87 Ja-F '63.

(MIRA 16:6)

(Algebra--Audio-visual aids) (Motion pictures in education)

MANTUROV, Oleg Vasil'yevich; SOLNTSEV, Yurii Konstantinovich;
SORKIN, Yurii Isaakovich; FEDIN, Nikolay Georgiyevich;
PUL'KIN, S.P., doktor fiz.-mat. nauk, retsenzent;
KONDRAT'YEV, V.A., kand. fiz.-mat. nauk, retsenzent;
MISHIN, V.I., kand. ped. nauk, retsenzent; VEYTSMAN,
I.B., prepodavatel', retsenzent; KREYDLIN, Ye.G., pre-
podavatel', retsenzent; PYSHKALO, A.M., prepodavatel',
retsenzent; DITKIN, V.A., prof., red.; YAKOVKIN, M.V.,
red.

[Explanatory dictionary of mathematical terms; textbook
for teachers] Tolkovyj slovar' matematicheskikh terminov;
posobie dlja uchitelei. Moskva, Prosveshchenie, 1965.
539 p. (MIRA 18:7)